T	·E.	sem 6. (Rev.) Systems Brogramming. 13/12	108
C	Con	. 5603-08. RC-69	23
(REVISED COURSE)			
	× .	(3 Hours) [Total Marks :	100
N	-	 Question number 1 is compulsory. Attempt any four questions out of remaining six questions. Assumptions made should be clearly stated. Figures to the right indicate full marks. Assume suitable data wherever required but justify the same. 	
1.	. (a)	Explain with the help of flowchart and data structures, working of one pass macro	10
	(b)	processor. Explain the design of two pass assembler with databases used.	10
2.	(a)	Explain the design of direct linking loader.	10
0	(b)	Write short notes on :— (i) SPARC Assembler	10
		(ii) Static and Dynamic Binding.	
3.	(a)	Discuss the advantages and disadvantages or incorporating the macro processor in to assembler pass 1.	10
	(d)	Explain various phases of compiler with suitable example.	10
4.		Explain recursive descent parter with suitable example.	10
	(b)	(i) Consider the following grammar— S \rightarrow A	10
		$A \rightarrow Ad Ae ab C$	
		$ \begin{array}{c} B \rightarrow bBC \mid f \\ C \rightarrow q \end{array} $	
		Eliminate the left recursion from above grammar.	
		(ii) Explain different assembler directives.	
5.	(a)	Explain different wpes of text editors.	10
	(b)	Write sequences of steps involved in dynamic debugging of program.	10
6.	(a)	Explain run time storage organization in detail.	10
	(b)	Construct predictive parsing table for the following grammar— S \rightarrow AaAb BbBa	10
		$A \rightarrow \in$	
		$B \rightarrow \in$	
7.	(a)	Explain design of Absolute Loader.	10
	(b)	Explain with the help of memory, data formats, registers, instruction formats, addressing modes of traditional CISC machines.	10

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